

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Work Order ID 138945

138945

Page 2

Friday, November 13, 2015 11:36:45 AM

Item ID: D139-799-015

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Engine Wash

Start Date: 11/3/2015 Start Qty: 2.00 *2*

Cust Item ID:

Required Date: 11/13/2015 Req'd Qty: 2.00 *2*

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00				2	1		
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D139-799-015								
	Location: <u>16019</u>								
	PPP rev: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

Sold

SNP
10/1/22

JAN 22 2016

MCS

20160122

DQA: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td style="border: none;"></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																		
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																		
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			Completed By																		
			Lead hand / Supervisor Approval Verification																		
			QC / QA Coordinator Approval																		
Root Cause		FAULT CATEGORY																			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐																
OTHER : _____																					

Picklist Print

Friday, November 13, 2015 11:36:44 AM

Page 1

Work Order ID: 138945

138945

Parent Item: D139-799-015

D139-799-015

Parent Item Name: Engine Wash

Start Date: 11/3/2015

Required Date: 11/13/2015

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP Rev:B 11.07.04 new issue DD verf:JLM IPP REV:B
AS PER ECN 11-598 11-06-05 JLM VERF BY:DD IPP Rev:C 11.09.27
PER CHG003 DD verf:EC IPP Rev:D 13.09.24 PER
CHG005/ECN13-579 DD verf:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D4121-1 *D4121-1* Hose Assy		Manufactured	No			110	Each	4.0000	2	4			
--	--	--------------	----	--	--	-----	------	--------	---	---	--	--	--

Location	Loc Qty	Loc Code
FG	3	
114101	1	
132053	2	
ST214	1	
137293	1	

DAS
27
9-89

D4121-3 *D4121-3* Hose Assy		Manufactured	No			110	Each	6.0000	1	2			
--	--	--------------	----	--	--	-----	------	--------	---	---	--	--	--

Location	Loc Qty	Loc Code
FG	1	
91535	1	
ST213	4	
137268	4	
ST214	1	
129024	1	

DAS
27
9-89

JAN 18 2016

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION		AGAINST DEPARTMENT/PROCESS							
	Rework	☐	Skid-tube	☐	Cross tube	☐	Water Jet	☐	Engineering	☐
	Scrap	☐	Machining	☐	Small Fab	☐	Prod. Eng. Coord.	☐	Quality	☐
	Use-as-is	☐	Thermoforming	☐	Finishing	☐	Rec/Store/Packaging	☐	Other	☐
	Suspected Unapproved	☐	Large Fab	☐	Composite	☐	Supplier	☐		

Date : _____ Step #: _____ QTY Effective : _____ MRB (QS1042) Approval _____

Description Work Order Deviation	Disposition	Completed By
		Lead hand / Supervisor Approval Verification
		QC / QA Coordinator Approval

Root Cause			FAULT CATEGORY		
Environment	☐	No Re-verification	Pressure/Forced	☐	Temperature/Cure
Design	☐	Operator	Bending	☐	Set-up
Doc/Data	☐	Offset/Setup	Centre Not Concentric	☐	BOM/Route
Equip/Tooling	☐	Supplier	Cracks	☐	Broken/Damage/Defect
Handling/Pre	☐	Training	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified
Material	☐	Use for Testing	Cuffs	☐	Contamination
Internal Transport	☐	Poor Information	Crushing	☐	Countersink
Tribal Knowledge	☐	Rushing	Heat Treat	☐	Cut Too Short
LOA	☐	Product Improvement	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear
Substation	☐	Process Improvement	Marks/Chatter	☐	Drill Holes
Past Expiry Date	☐	Manufacturing Process			
Misidentified	☐	Past Due	OTHER : _____		

Picklist Print

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Page 2

Work Order ID: 138945

138945

Parent Item: D139-799-015

D139-799-015

Parent Item Name: Engine Wash

Start Date: 11/3/2015

Required Date: 11/13/2015

Start Qty: 2.00

Required Qty: 2.00

D4121-5 Manufactured No

110 Each 6.0000 1 2

D4121-5

Hose Assy

**

DAS
27
9-89

Location

Loc Qty

Loc Code

ST213

4

137227

4

ST214

2

135513

2

D4131-041 Manufactured No

110 Each 1.0000 1 2

D4131-041

Manifold Assembly

**

1x D135 014

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST085

1

137617

1

D4131-043 Manufactured No

110 Each 2.0000 1 2

D4131-043

Doubler Assembly

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST085

2

135217

2

D4146-1 Manufactured No

110 Each 0.0000 2 4

D4146-1

Fitting

**

137090

DAS
6
9-89

DAS
28
9-89

D4182-1 Manufactured No

110 Each 8.0000 2 4

D4182-1

Fitting, Quick Disconnect

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST089

8

135715

8

DAS
27
9-89

4

JAN 18 2016

DAS
28
9-89

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Shop Packet Print

Page 2

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Picklist Print

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Page 3

Work Order ID: 138945

138945

Parent Item: D139-799-015

D139-799-015

Parent Item Name: Engine Wash

Start Date: 11/3/2015

Required Date: 11/13/2015

Start Qty: 2.00

Required Qty: 2.00

D4384-1

Manufactured No

110

Each

6.0000

1 2

D4384-1

Placard

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

FG

5

80679

5

ST095

1

133324

1

AN526-1032R16

Purchased No

110

Each

50.0000

4 8

AN526-1032R16

Screw

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST325A

49

m133234

49

ST326

1

m130928

1

AN832-6J

Purchased No

110

Each

15.0000

2 4

AN832-6.1

Union

**

DAS
6
9-89

JAN 18 2016

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK06

8

m133234

8

ST332

7

m133031

7

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Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																																																																																											
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																																																																																											
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																																																																																											
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																																																																																											
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐																																																																																											
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐																																																																																											
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐																																																																																											
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																																																																																											
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																																																																																											
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																																																																																											
Past Expiry Date ☐	Manufacturing Process ☐																																																																																															
Misidentified ☐	Past Due ☐	OTHER : _____																																																																																														
Power Loss/Surge ☐	Positioned Wrong ☐																																																																																															
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Mislabeled ☐	Finish ☐																																																																																															
Fit/Function ☐	Misread ☐																																																																																															
Misaligned/off center ☐	Turning Sequence ☐																																																																																															

Picklist Print

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Work Order ID: 138945

138945

Parent Item: D139-799-015

D139-799-015

Parent Item Name: Engine Wash

Start Date: 11/3/2015

Required Date: 11/13/2015

Start Qty: 2.00

Required Qty: 2.00

AN924-6J

Purchased

No

110

Each

16.0000

4

8

AN924-6J

NUT

**

Location

Loc Qty

Loc Code

CCK06

12

m133234

12

FG

4

123245

2

m132256

2

Each

122.0000

20

40

**

MS21919-WDG9

Purchased

No

MS21919-WDG9

Clamp

Location

Loc Qty

Loc Code

CCK06

100

m133234

100

ST293

22

m133031

22

Each

27.0000

4

8

**

NAS1149C0932R

Purchased

No

NAS1149C0932R

WASHER

Location

Loc Qty

Loc Code

ST271

27

m131026

27

JAN 18 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐								
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval					
Description Work Order Deviation				Disposition				Completed By				
								Lead hand / Supervisor Approval Verification				
												QC / QA Coordinator Approval
Root Cause		FAULT CATEGORY										
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐							
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐							
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐							
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐							
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐							
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐							
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐							
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐							
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐							
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐							
Past Expiry Date ☐	Manufacturing Process ☐											
Misidentified ☐	Past Due ☐	OTHER : _____										

5.0 PARTS LIST

Qty -011	Qty -012	Qty -015	Qty -017	Qty -019	Qty -112	Qty -211	Qty -212	Qty -213	Part Number	Description
X									D139-799-011	MAINTENANCE STEP KIT, LH
	X								D139-799-012	MAINTENANCE STEP KIT, RH
		X							D139-799-015	ENGINE WASH KIT
			X						D139-799-017	CARGO FLOOR PROTECTOR KIT
				X					D139-799-019	CABIN FLOOR PROTECTOR KIT
					X				D139-799-112	MAINTENANCE STEP WITH GRAB BAR KIT, RH
						X			D139-799-211	QUICK RELEASE MAINTENANCE STEP KIT, LH
							X		D139-799-212	QUICK RELEASE MAINTENANCE STEP KIT, RH
								X	D139-799-213	QUICK RELEASE MAINTENANCE STEP PROVISIONS KIT
			2						D3580-1	JOGGLE BRACKET
			2	8					D3628-1	CUPPED WASHER
1									D4092-041	MAINTENANCE STEP ASSEMBLY
	1								D4092-042	MAINTENANCE STEP ASSEMBLY
		2							D4121-1	HOSE ASSEMBLY
		1							D4121-3	HOSE ASSEMBLY
		1							D4121-5	HOSE ASSEMBLY
				1					D4130-1	FWD CABIN FLOOR PROTECTOR
				1					D4130-3	AFT CABIN FLOOR PROTECTOR
			1						D4130-5	FWD CARGO FLOOR PROTECTOR
			1						D4130-7	CENTER CARGO FLOOR PROTECTOR
			1						D4130-9	AFT CARGO FLOOR PROTECTOR
		1							D4131-041	MANIFOLD ASSEMBLY
		1							D4131-043	DOUBLER ASSEMBLY
		2							D4146-1	FITTING
			1						D4153-1	JOGGLE BRACKET
			1						D4153-3	JOGGLE BRACKET
				4					D4153-5	CLAMP PLATE
			2						D4166-1	PLACARD, MAX LOAD
		2							D4182-1	FITTING, QUICK DISCONNECT
		1							D4384-1	PLACARD
					1				D4526-042	MAINTENANCE STEP ASSEMBLY, RH
						1			D5238-041	MAINTENANCE STEP ASSEMBLY
							1		D5238-042	MAINTENANCE STEP ASSEMBLY
						1	1	1	D5238-043	LOWER BRACKET, AFT
						1	1	1	D5238-045	LOWER BRACKET, FWD
						1	1	1	D5245-1	MOUNTING BOLT
2	2				2	2	2	2	AN6H12A	BOLT
2	2				2	1	1	1	AN6H13A	BOLT
		4							AN526-1032R16	SCREW
		2							AN832-6J	UNION
		4							AN924-6J	NUT
		20							MS21919WDG09	CLAMP
6	6				6	5	5	5	NAS1149D0663J	WASHER (or AN960JD616)
		4							NAS1149C0932R	WASHER (or AN960C916L)